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Summary
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Manitoba High
Schools
86-06

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HIGHLIGHTS

One hundred and seventy-four schools across Manitoba offer high school courses. Analysis of these high schools show that diversity is the most common thread throughout the system. Highlights include:

- Overall student enrolment is stable with a slight movement having occurred from rural Manitoba to Winnipeg and northern Manitoba.
- In Winnipeg, almost all schools have large student enrolments whereas in rural and northern Manitoba the majority of schools qualify for the small schools support program having high school enrolments less than 200 students.
- 85% of the schools offer high school courses in combination with the elementary grades.
- Over 1/2 of the schools are organized into a semester system, with the remainder operating on a full year basis.
- The provision of optional courses varies from region to region and from school to school.
- On average, Winnipeg has more experienced teachers, with northern Manitoba having the least experienced teaching force.
- Across the province, considerable variation exists in the time allocated to the teaching of specific courses.

POINTS SAILLANTS

Au Manitoba, il y a 174 écoles qui offrent des cours au niveau secondaire. L'analyse de ces écoles démontre que la diversité demeure en quelque sorte le point commun du système des écoles publiques de la province. Les points saillants de cette analyse sont les suivants:

- Le nombre d'élèves inscrits dans l'ensemble des écoles demeure sensiblement le même; cependant, on note une légère augmentation des inscriptions à Winnipeg et dans les régions du nord du Manitoba, au détriment des régions rurales.

- Le nombre d'élèves inscrits demeure élevé dans presque toutes les écoles de Winnipeg, tandis que la plupart des écoles des régions rurales et du nord du Manitoba sont admissibles au Programme d'aide aux petites écoles, car moins de 200 élèves y sont inscrits.

- 85% des écoles offrent à la fois des cours aux niveaux secondaire et élémentaire.

- Plus de la moitié des écoles divisent leur année scolaire en deux semestres tandis que le reste ne le font pas.

- Les cours à option offerts varient d'une région et d'une école à l'autre.

- En moyenne, le nombre d'années d'expérience des enseignants est plus élevé à Winnipeg, tandis qu'il est moins élevé pour les enseignants des régions du nord du Manitoba.

- Le temps alloué à l'enseignement d'un cours donné varie considérablement d'une région à l'autre.

SUMMARY PROFILE OF MANITOBA HIGH SCHOOLS

INTRODUCTION

Manitoba has 174 schools across the province which provide high school (grades 10, 11, 12: levels 10x, 20x, 30x) education. The diversity of Manitoba's geography and population patterns impacts on how each of these schools addresses both provincial requirements and local needs. The purposes of this paper are to provide some basic information on selected aspects of Manitoba's high schools, and to provide an overview of the current system.

Data were drawn from existing sources including:

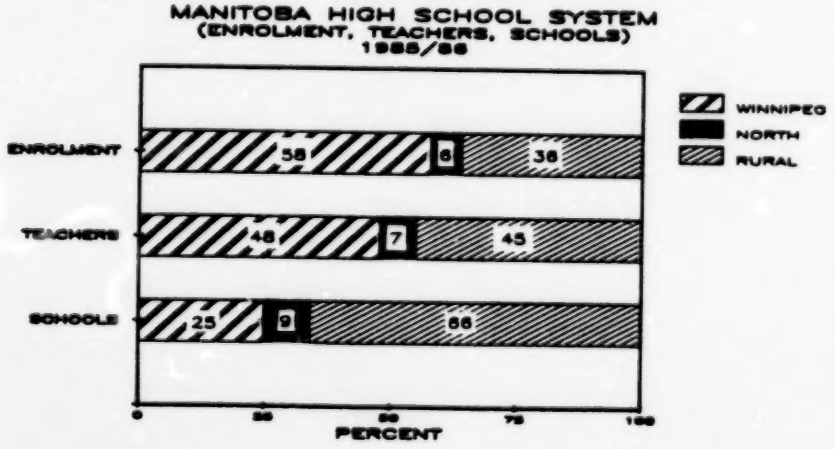
1. Manitoba Education Professional School Personnel File
2. Manitoba Education School Enrolment Reports
3. Public Schools Finance Board Facilities File

Throughout the paper, analysis was conducted on the PUBLIC SCHOOL SYSTEM only, and wherever possible on a regional as well as provincial basis. Three regions were defined as follows (refer to Appendix A for a complete list of school divisions/districts):

1. Winnipeg - school divisions 1-6, 8-10, 12.
2. North - school divisions/districts 45, 46, 48, 2264, 2309, 2312, 2355, 2460.
3. Rural - remainder.

Specific areas reviewed include enrolment, school settings, characteristics of teachers, course/program availability, and instruction time allocation.

As an introduction to the paper, the following chart shows how the distribution of students, teachers, and schools varies across regions of Manitoba.



Over one-half of high school students attend schools within Winnipeg, while almost one-half of the teachers and one-quarter of the schools are in Winnipeg. Rural Manitoba displays the reverse situation (36% of the enrolment, 45% of the teachers, and 66% of the schools) and Northern Manitoba is roughly proportionate.

These patterns raise issues such as small versus large high schools, variations in average class sizes, pupil/teacher ratios, and so on.

1. Student Patterns

In 1985/86, there were 45,600 students enrolled in Manitoba's public high school system. This represented 94% of high school students, with the remaining 5% in private schools, and 1% in other types of schools.

Over the past ten years there has been a decrease of 1,086 students attending high school. This is made up of a decrease of 1,676 students in public schools and an increase of 590 students attending private/other schools. The following table shows the regional breakdown of public school enrolments.

MANITOBA PUBLIC HIGH SCHOOL ENROLMENTS
(1975/76, 1980/81, 1985/86)

Region	1975/76		1980/81		1985/86	
	#	%	#	%	#	%
Winnipeg	26,905	57	26,379	57	26,555	58
Rural	18,143	38	17,452	38	16,195	36
North	2,199	5	2,411	5	2,821	6
Total	47,237	100	46,242	100	45,571	100

Over the ten year span the distribution of enrolment across Manitoba has remained stable. During the last five years, both the North and Winnipeg has experienced a slight increase in proportional enrolments at the expense of Rural Manitoba.

2. Schools

The schools in which high school students are taught are not uniform across the province. Diversity exists across regions by size, setting, organization, facilities, programs/courses offered, and the like.

(a) Size of Schools

Seventy-five percent of Manitoba's high schools are located outside of Winnipeg, with 116 situated in Rural Manitoba, and 15 in the North.

MANITOBA HIGH SCHOOLS BY SIZE
1985/86

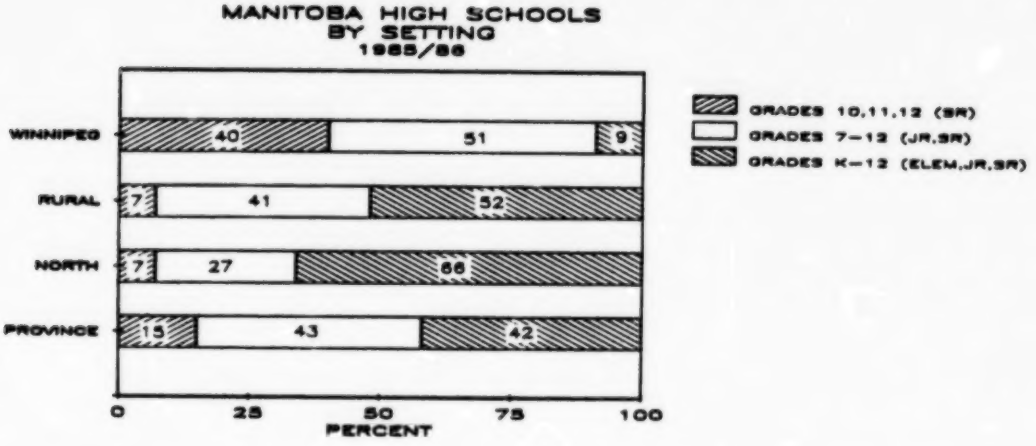
	Large	Small	Total
Winnipeg	41	2	43 (25%)
Rural	48	68	116 (.67%)
North	5	10	15 (8%)
Province	94	80	174 (100%)

Just under one-half of the schools (80 of 174) are designated as "small" high schools (ie. having grades 10, 11, or 12 and eligible for the small schools compensatory support program which requires the school to have fewer than 200 students from grades 9-12). In both Rural and North Manitoba, the majority of high schools are "small".

(b) Settings in Which High School Programs Are Offered

The Public Schools Act officially defines Elementary School as including grades K-8, and Secondary School as grades 9-12. Throughout the province however, the public school system is more commonly divided into Elementary (grades K-6), Junior High (grades 7-9), and Senior High (grades 10-12). Only 15% of Manitoba's public schools which offer grades 10, 11, and 12 are strictly

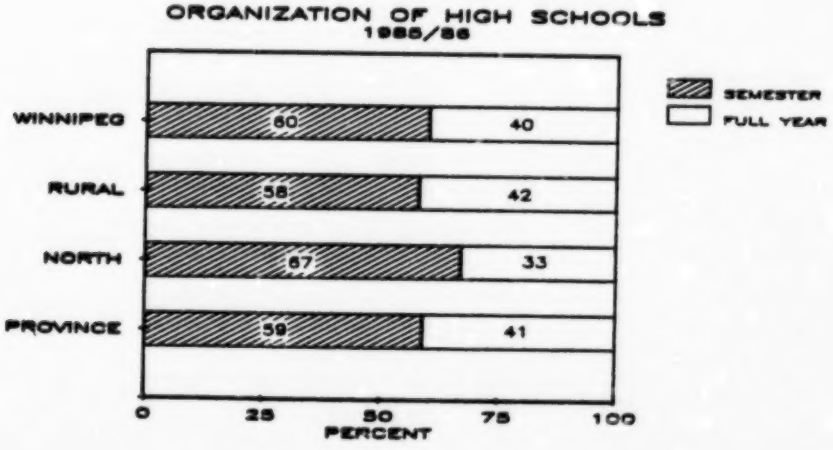
high schools (ie. having only grades 10, 11, and/or 12). Within the remaining 85%, a variety of grade spans exists.



Winnipeg has the greatest proportion of schools offering only grades 10, 11, and 12 (40%), while Rural and North Manitoba have 7% each. In both Rural and North Manitoba, the K-12 environment, or some combination within, is most prevalent.

(c) Organizational Arrangements

Within Manitoba, the school year is offered in two forms: (1) classes taught over the full ten months; and, (2) classes taught within a semester system with two equal length terms occurring within the year.



Fifty-nine percent of all public schools offering grades 10, 11, and 12 are organized on a semester basis. The semester structure occurs in most schools within all three regions across the province (60% of Winnipeg, 67% of Northern, and 58% of Rural schools).

(d) Facilities Available

Although all high schools have classrooms roughly in the same proportion as students, other types of specialized space are not equally available.

MANITOBA HIGH SCHOOLS
PROPORTIONS WITH SELECTED FACILITIES
1983/84

	Winnipeg %	Rural & North %	Province %
Special Areas			
Gymnasium	88	98	95
Library	85	93	91
Theatre Forum	56	22	32
Rooms Available			
Multi-purpose	37	60	53
Art	71	21	36
Music	76	40	50
Laboratories	81	88	85
Industrial Arts	68	50	56
Home Economics	78	52	60
Business Education	88	81	83
Vocational Education	27	19	21

Schools within Winnipeg are generally better equipped than Rural and Northern schools. Areas most often not reported by Rural and North schools include Art, Music, Home Economics, and Industrial Arts. Vocational Education facilities are confined to a minority of divisions and schools.

(e) Option Programs and Courses

All schools in Manitoba offer courses for which a provincial curriculum is defined, which allow students to earn their required graduation credits (refer to Appendix A for the list of subject areas). Within the course offerings, however, a range of options are available to students. As a means of gleaning some insight into the provision of optional programs and courses, this section of the paper presents information on the following five areas: language of instruction, computer related courses, vocational education, occupational entrance, and courses designed to meet individual/local needs.

1. Language of Instruction

In 1985/86, 23 schools across Manitoba offered courses taught in the French language. Of these, 11 offered Francais programs (for students having French as a first language), while the remaining 12 offered French Immersion (for students wanting to learn French as a second language).

MANITOBA HIGH SCHOOLS BY LANGUAGE PROGRAMS
1985/86

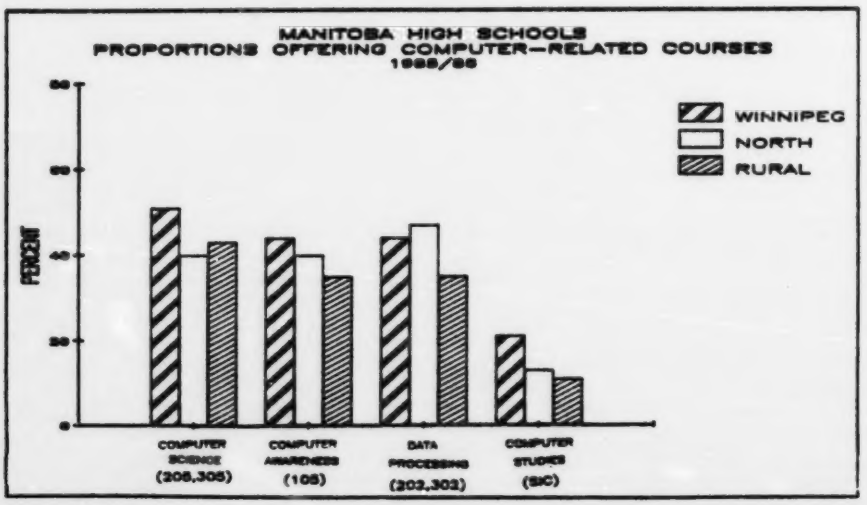
	Winnipeg	Rural	North	Province
English only	33	103	15	151
English with French Immersion	6	5	-	11
English with Francais	1	4	-	5
French Immersion	1	-	-	1
Francais	2	4	-	6
	43	116	15	174

The majority of the language programs at the high school level were housed within English language schools, with a fairly even Winnipeg and Rural distribution. North Manitoba offered no programs at the high school level in the French language.

2. Computer Related Courses

Computer-related courses have been offered within Manitoba schools since the early 1970's. It has not been until fairly recently, however, that such courses have received high student demand.

At the high school level, three categories of computer related courses have been offered: Computer Awareness at grade 10, Computer Science at grades 11 and 12, and Data Processing at grades 11 and 12. In addition, school initiated Computer Studies courses are offered.



In 1985/86, 70% of Manitoba high schools offered at least one of the five computer related courses for which a provincial curriculum existed (ie. Computer Science 205, 305, Computer Awareness 105, and Data Processing 202, 302). Overall, a greater proportion of Winnipeg schools had more offerings, but both Rural and North Manitoba were close. Twenty-four (14%) of the province's high schools offered school initiated Computer Studies courses with six of these schools not offering any of the couses for which a provincial curriculum existed.

In 1985/86, 14% of Manitoba's high school enrolment was reported as taking at least one of the five computer courses that have a provincial curriculum. This proportion is relatively high considering that only 13% of the high schools offered all courses, while 30% did not offer any courses. The enrolment proportion increased to 17% when school initiated computer courses were included in the analysis.

3. Vocational Education Programs

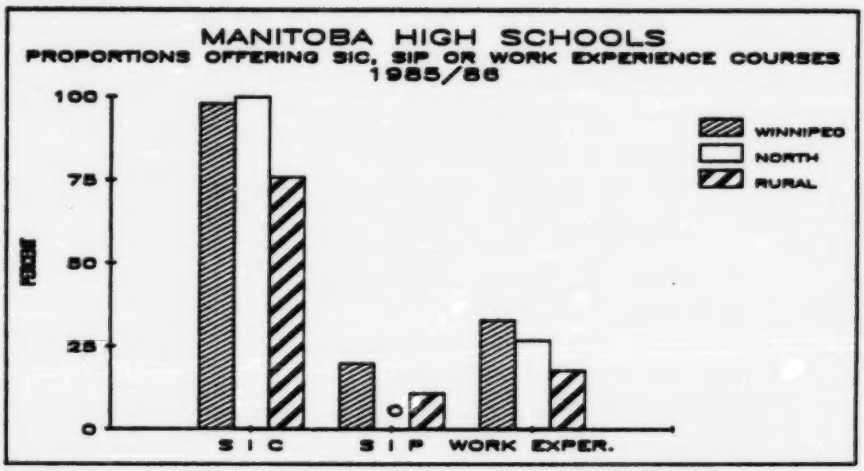
In 1985/86, less than one-quarter of Manitoba high schools offered vocational education programs. In Winnipeg 23% of the schools did so, in Rural Manitoba 15%, and in North Manitoba 20%.

4. Occupational Entrance Programs

Within the high school course offerings are a very large number of occupational entrance courses (refer to Appendix A in the course listing for all 104, 204, and 304 subjects). In 1985/86, just over one-third of the high schools provided courses within this program. Over one-half of the schools in Winnipeg (54%) and just under one-half in the North (47%) offered the program, whereas only 28% of the Rural schools did so.

5. Courses To Meet Individual Needs

Courses which are not provided for in the provincial high school curriculum can be initiated at the school level. School initiated courses (SIC's), student initiated projects (SIP's), and work experience credits are available to students who want to pursue special areas of interest or who want to access other arenas (eg. the workplace) as a learning environment (refer to Appendix A for definitions of the courses).



In 1985/86, the availability of SIC's was widespread across the province with 145 of the 174 high schools (83%) having offered them. The provision of student initiated projects and work experience credits was much less common, with Winnipeg having the greatest availability, and the North having the least.

Across the province a variety of needs were being addressed, as shown by the large number of school initiated courses offered. Not unexpectedly, these courses varied according to region (refer to Appendix B for a complete list with enrolment proportions).

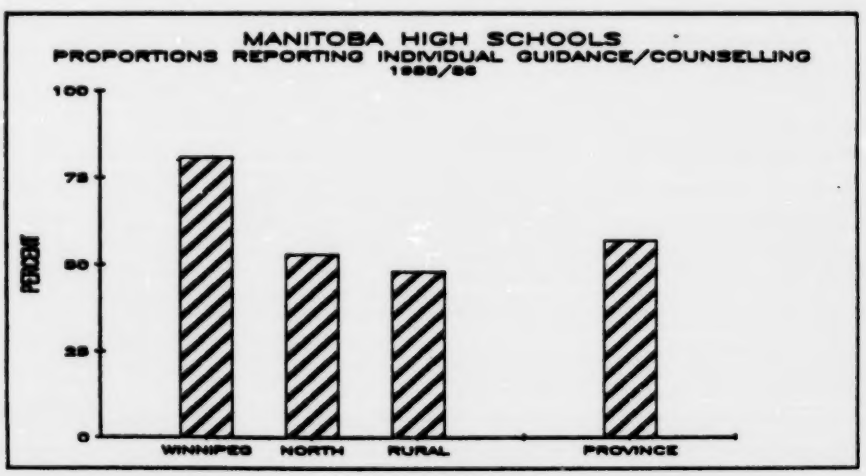
SCHOOL INITIATED COURSES
(6 COURSES WITH GREATEST ENROLMENTS)
1985/86

Winnipeg	Rural	North
Guidance/Career Development	Guidance/Career Development	Guidance/Career Development
Physical Education	Religion	Social Sciences
English as a Second Language	Physical Education	Visual Art
Social Studies	English Language Arts	Physical Education
Music	Music	Music
English Language Arts	Business Education	Library/Research Skills

Within all regions, Guidance/Career Development was most widely offered in 1985/86. Indeed, 71 of the 174 high schools (41%) initiated this course offering. Beyond this particular course, the needs and interests of students/communities were widespread and varied in nature. English as a Second Language (ESL) was seen as being was important in Winnipeg, whereas Religion courses were seen as being important in Rural areas. Even though subjects such as Physical Education and Music can be offered as part of the regular program (ie. with a provincial curriculum), many schools had seen the need to offer courses in these areas on a school initiated basis.

(f) Provision of Individual Guidance/Counselling

Fifty-seven percent of Manitoba's high schools had staff in 1985/86 who reported that part of their workload was designated as being devoted to guidance/ counselling of individual students.



Winnipeg high schools were fairly well represented but both Rural and North schools were not. Only one-half of the schools outside Winnipeg had staff members reporting provision of this service for their students. More teachers in Winnipeg, compared to their Rural and Northern counterparts, reported having this task as part of their assignment.

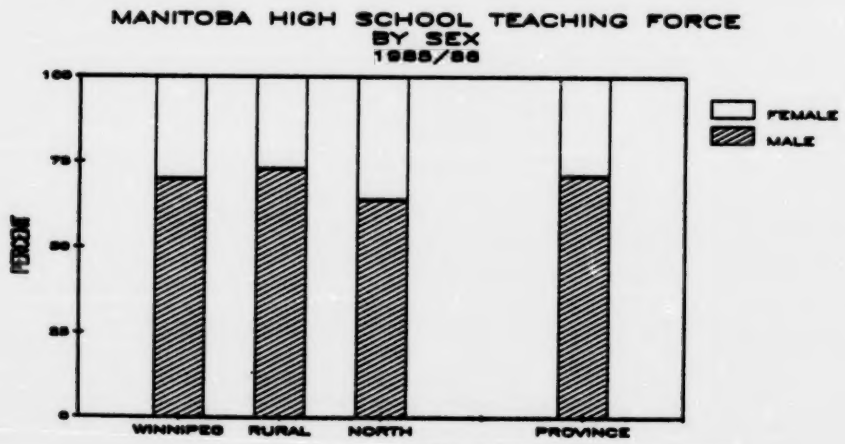
3. Teachers

Duties reported by teachers range from performing solely administrative tasks to spending all of their time in a classroom setting. For the purpose of this paper, analysis has been made only on personnel who have reported at least part of their designated workload time as being associated with instruction or supervision of high school students. This selection was made because of the difficulties in demarcating high school personnel from elementary personnel in the many schools where both ranges of grades are offered. As such, full-time administrators have not been included, whereas personnel who spent at least a portion of their workload in instructional or supervisory tasks (ie. 52 of the 174 principals), have been included.

As mentioned in the Introduction, 48% of Manitoba's teachers work in Winnipeg schools, 45% in Rural Manitoba, and the remaining 7% in North Manitoba.

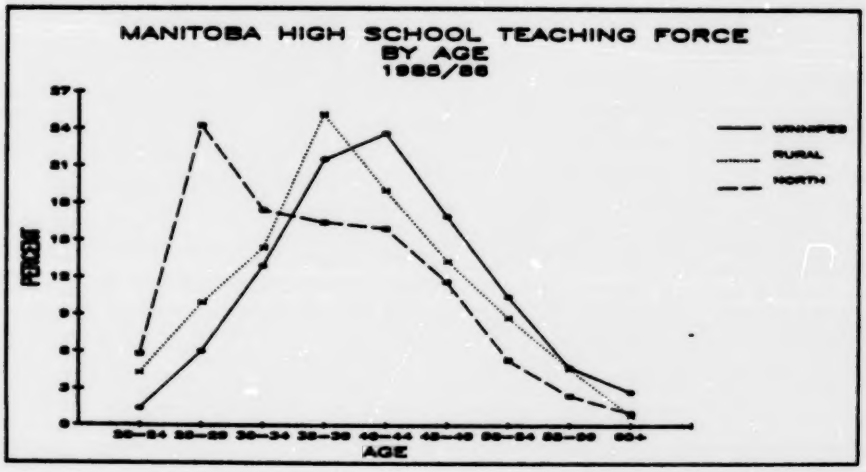
(a) Sex

In 1985/86, 71% of high school teachers were males. The predominance of males over females occurred within all three regions of the province, with Rural Manitoba having the greatest proportion being males, and North Manitoba the lowest.



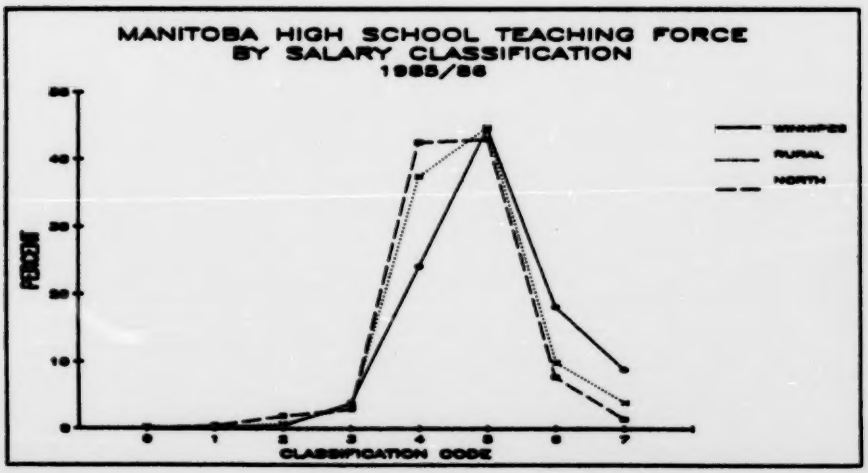
(b) Age Distribution

Province-wide, the overall median age of teachers was 39 years. Across regions, the North had the largest proportion of younger teachers (median age 35), then Rural Manitoba (median age 38), and then Winnipeg with the largest proportion of older teachers (median age 41). At the upper end of the scale, 16% of Manitoba's teachers were aged 50 and over.



(c) Salary Classification

Corresponding to the age distribution proportions, large proportions of teachers in the North were at lower classification levels, while large proportions of teachers in Winnipeg were at higher levels. Province-wide, the median salary level was class 5.



(d) Total Years of Teaching Experience

For Manitoba high school teachers, the 1985/86 median number of teaching years was 13. The distribution across regions paralleled the salary classification graph above, with Winnipeg teachers having proportionally more years of experience, and North teachers having less. Overall, 18% of the high school teachers had five or fewer years of experience, while 20% had more than 20 years experience.

(e) Classroom Teachers

In 1985/86, 86% of the province's teaching personnel had a position title of teacher, with the remainder being principals, co-ordinators, consultants, department heads, librarians, and the like. Of those with teacher as a title, 92% reported themselves as regular classroom teachers. Analysis across regions showed that, although comparatively small, Winnipeg had a greater degree of specialization (10% other than classroom teachers), while North Manitoba had very little specialization (3%).

MANITOBA HIGH SCHOOL "CLASSROOM" TEACHERS BY TYPE OF POSITION
1985/86

Teaching Position	Winnipeg %	Rural %	North %	Province %
Regular Classroom Teacher	90.2	92.0	97.2	91.6
Vocational Teacher	6.5	4.9	2.2	5.4
Occupational Entrance Teacher	1.0	1.4	-	1.1
Itinerant Teacher	0.3	1.2	-	0.7
Remedial Teacher	0.2	0.2	-	0.2
Special Education Teacher	1.2	0.2	0.6	0.7
Special Needs Teacher	0.6	0.1	-	0.3
	100.0	100.0	100.0	100.0

4. Teacher Time Allocations

Each teacher can be assigned a variety of roles ranging from administrative, instructional, supervisory, preparatory, resource, travel, and the like. Annually, or semi-annually for semestered schools, each teacher's workload is reported. From these records it is possible to analyze how much time has been allocated for various activities. For an overview of what occurs during a full term, teachers' time allocations associated with some selected grade 12 courses and that with preparation have been presented here.

(a) Level 300 Courses

A full course being equal to one credit is defined as having between 110-120 hours of instruction. For this paper, seven level 300 courses were analyzed as to the number of associated hours teachers reported as part of their 1985/86 workload.

AVERAGE TIME ALLOCATIONS
FOR SELECTED LEVEL 300 COURSES
1985/86

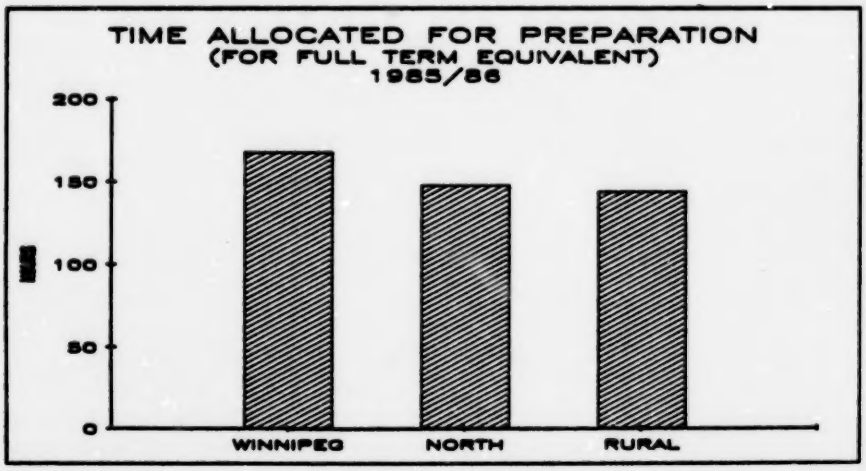
Course	Median Hours*	Mode Hours**	Average Hours***	Standard Deviation (HRS)****
Biology	128	128	124	29
Chemistry	128	128	120	25
English	128	128	138	61
French (Core)	128	128	115	36
Geography	124	128	121	25
Mathematics	128	128	122	37
Physics	125	128	121	32

*Median - the numerical value of the middle case or the case lying exactly on the 50th percentile, once all the cases have been rank ordered from highest to lowest.
**Mode - the value of the variable which occurs most often.
***Mean - referred to as the average value, it is merely the sum of the individual values for each case divided by the number of cases.
****Standard Deviation - a measure of the dispersion of the data about the mean of a variable. It can show how closely the individual scores of a variable vary on both sides of the mean.

For each course area, the majority of teachers across the province had allocated instructional hours which were slightly higher than the requirement (medians and modes between 124 and 128). It is of special interest to note, however, that the mean (average) hours were not so stable. The very large standard deviations, which illustrate the level of variation around the mean, indicate that a substantial number of teachers had reported less than the required time while others reported more than the requirement. The standard deviations ranged from 21% of the mean for Chemistry, to 44% of the mean for English. This situation was present with Winnipeg as well as Rural and North Manitoba.

(b) Preparation

On average, Manitoba high school teachers reported having 156 hours per school year for preparation time. This was equivalent to instructional time for 1 1/3 courses.



On a regional basis, teachers in Winnipeg (on average), allocated more time for preparation than both Rural or North teachers.

APPENDICES

A. Definitions

1. School Divisions/Districts - the public school system within the province is divided into 47 school divisions and 7 remote school districts.

Region	Divisions/Districts	
Winnipeg	1 - Winnipeg	
	2 - St. James-Assiniboia	
	3 - Assiniboine South	
	4 - St. Boniface	
	5 - Fort Garry	
	6 - St. Vital	
	8 - Norwood	
	9 - River East	
	10 - Seven Oaks	
	12 - Transcona-Springfield	
Rural	11 - Lord Selkirk	30 - Pine Creek
	13 - Agassiz	31 - Beautiful Plains
	14 - Seine River	32 - Turtle River
	15 - Hanover	33 - Dauphin-Ochre
	16 - Boundary	34 - Duck Mountain
	17 - Red River	35 - Swan Valley
	18 - Rhineland	36 - Intermountain
	19 - Morris-MacDonald	37 - Pelly Trail
	20 - White Horse Plains	38 - Birdtail River
	21 - Interlake	39 - Rolling River
	22 - Evergreen	40 - Brandon
	23 - Lakeshore	41 - Fort la Bosse
	24 - Portage la Prairie	42 - Souris Valley
	25 - Midland	43 - Antler River
	26 - Garden Valley	44 - Turtle Mountain
	27 - Pembina Valley	47 - Western
	28 - Mountain	2439 - Sprague
	29 - Tiger Hills	2461 - Gypsumville
Northern -	45 - Kelsey	2312 - Lynn Lake
	46 - Flin Flon	2355 - Mystery Lake
	48 - Frontier	2460 - Leaf Rapids
	2264 - Churchill	
	2309 - Snow Lake	

2. Student Enrolment - head counts of pupils enrolled in grades 10, 11, and 12: levels 10x, 20x, and 30x in Manitoba's public school system.

3. A High School - an institution which houses grades 10, 11, and/or 12 in Manitoba's public school system.

4. A High School Teacher - a certified professional school personnel who has designated workload time directly associated with students in grades 10, 11, and/or 12. Solely administrative personnel are not included.

5. Courses - the following list provides all subject and activity classifications for:

LIST I — PROVINCIAL CURRICULUM COURSES

Elementary and High School

0006 Art — 1-9. 101. 201. 301
Basic French:
0035 Exposure Package (K-3)
0036 9-Year Program (N) — 4-9. 100N. 200N. 300N
0037 6-Year Program (S) — 7-9. 100S. 200S. 300S
0038 3-Year Reentry (10-12) — 101. 201. 301
0042 Conversational French (all other French programs) — 1-9. 100. 101. 200. 201. 300. 301
0012 Biology — 200. 201. 300. 301
0022 Chemistry — 200. 300
0008 Chinese: Mandarin — 1-6
0367 Computer Awareness — K-9. 105
0026 Computer Science — 205. 305
0030 Dramatic Arts — 105. 205. 305
0067 English Language Arts — 1-9. 074. 084. 094. 100. 101. 104. 200. 201. 204. 300. 301. 304. 305
0047 Geography — 100. 101. 200. 201. 300. 301
0048 German — 1-9. 100. 200. 300
0054 Health — 1-9
0119 Hebrew — 7-9. 100. 200. 300
History
0321 American — 100. 101
0322 Canadian — 200. 201
0324 Modern Civilization — 300
0057 Home Economics — 7-9. 101. 201. 301
0152 Art in Fabric Study — 201
0153 Canadian Foodways — 201
0154 Fabric Arts — 101
0155 Family Groupings — 301
0156 Food For Thinking People — 101
0159 People Places — 301
0160 The Human Journey — 201
0132 Icelandic — 1-9
0147 Italian — 1-9. 100. 200. 300
0143 Journalism — 205
0065 Kindergarten
0069 Latin — 8-9. 100. 200. 300
0379 Lifestyles — 205
0075 Mathematics — 1-9. 074. 084. 094. 100. 101. 104. 200. 201. 204. 300. 301. 304
0024 Introduction to Calculus — 305
0144 Statistics & Probability — 305
0145 Topics in Mathematics — 305
0079 Music — 1-9. 100. 101. 200. 201. 300. 301
0374 Band — 105. 205. 305
0375 Choral — 105. 205. 305
0376 Guitar — 105. 205. 305
0377 Strings/Orchestra — 105. 205. 305
0162 Native Languages — 1-12
0086 Physical Education — 1-9. 105
0087 Physical Science — 201. 301
0088 Physics — 200. 300
0369 Pilipino — 1-9. 100. 200
0032 Polish — 1-6
0131 Political Studies — 201
0368 Portuguese — 1-9. 100. 200. 300
0098 Science — 1-9. 074. 084. 094. 100. 101. 104. 204. 304
0103 Social Studies — 1-9. 074. 084. 094. 104. 204. 304
0323 Comparative Systems — 300
0384 Modern World Problems — 301
0385 World Issues — 300. 301
0118 Spanish — 7-9. 100. 200. 300
0110 Ukrainian — 1-9. 100. 200. 300

Business and Marketing Education

0001 Accounting — 202. 302
0021 Business Principles — 201
0027 Data Processing — 202. 302
0031 Economics — 301
0039 Exploration of Business — 9
0044 General Business — 101
0018 Law — 302
0359 Management — 302
0360 Marketing Practicum — 302
0084 Office Procedures — 302
0361 Promotions — 202
0362 Relations in Business — 202
0363 Retailing — 102
0102 Shorthand & Transcription — 202. 302
0108 Typewriting — 102. 202. 302

Developmental Education (EMH)

0011 Basic Skills
0063 Initial Skills
0083 Occupational Skills
0161 Speech Therapy — Language Development

Trainable Mentally Handicapped (TMH)

0107 Trainable Mentally Handicapped

Bilingual Programs Other Than French

0991 English/Ukrainian Program
0992 English/German Program
0993 English/Hebrew Program

Industrial Education

a) Vocational Industrial

0004 Advertising Arts — 103, 203, 303
0002 Agriculture — 103, 203, 303
0096 Air Conditioning & Refrigeration — 103, 203, 303
0136 Auto Body Repair — 103, 203, 303
0015 Building Construction — 103
0005 Building Crafts — 103, 203, 303
0177 Carpentry — 103, 203, 303
0007 Child Care — 103, 203, 303
0178 Commercial Art — 103, 203, 303
0135 Commercial Baking — 103, 203, 303
0009 Commercial Cooking — 103, 203, 303
0137 Cosmetology — 103, 203, 303
0017 Custodial Services — 103, 203, 303
0028 Dental Assisting — 203, 303
0129 Dental Technology — 203, 303
0179 Drafting — 103, 203, 303
0033 Electricity/Electronics — 103, 203
0180 Electricity — 303
0010 Electronic Communications — 103, 203, 303
0181 Electronics — 303
0166 Family & Community Services — 103, 203, 303
0019 Farm Management — 103, 203, 303
0344 Fashion Technology & Production — 103, 203, 303
0023 Food Services — 103, 203, 303
0060 Graphic Arts — 103, 203, 303
0040 Institutional Services — 103, 203, 303
0138 Jewelry Arts — 103, 203, 303
0025 Landscape Gardening — 103, 203, 303
0070 Laundry/Dry Cleaning — 103, 203, 303
0182 Machine Shop — 103, 203, 303
0345 Metals & Aerospace Technology — 103, 203, 303
0184 Mineral Science — 103, 203, 303
0185 Painting & Decorating — 103, 203, 303
0186 Photography — 103, 203, 303
0187 Piping Trades — 103, 203, 303
0091 Plastics — 103, 203, 303
0093 Power Mechanics — 103, 203, 303
0139 Resource/Environment Management — 103, 203, 303
0188 Sheet Metal — 103, 203, 303
0106 Television/Broadcasting — 103, 203, 303
0189 Welding — 103, 203, 303

b) Industrial Arts

0168 Construction — 7-9
0029 Drafting — 7-9, 101, 201, 301
0034 Electricity/Electronics — 7-9, 101, 201, 301
0051 Graphics Arts — 7-9
0171 Graphic Communications — 7-9
0020 Graphics — 101, 201, 301
0169 Manufacturing — 7-9
0078 Metalwork — 7-9, 101, 201, 301
0092 Plastics — 7-9
0170 Power/Energy — 7-9
0095 Power Mechanics — 7-9, 101, 201, 301
0045 Woodwork/Construction — 101, 201, 301
0111 Woodwork — 7-9

LIST II — SCHOOL INITIATED COURSES (SIC)

Art
9901 Dance
9902 Dramatic
9903 Music
9904 Visual
9905 Business Education
9906 Computer Studies
9907 English As A Second Language (ESL)
9908 English Language Arts
9909 Gifted/Talented
9910 Guidance/Career Development — includes coursework related to the development of the personal, social, emotional and career planning areas
9911 Languages (other than English or French)
9912 Library/Research Skills
9913 Mathematics
9914 Nursery
9915 Outdoor Education
9916 Physical Education
9917 Practical Arts
9918 Religion
9919 Science
9920 Social Sciences
9921 Social Studies
9922 Special Education
9923 Other

LIST III — ACTIVITIES

9970 Administration
9971 Clinician
9972 Guidance/Counselling — Individual
9973 Library
9974 Preparation
9975 Resource
9976 Supervision — General
9977 Supervision — Student Initiated Projects (SIP)
9978 Supervision — Work Experience
9979 Travel
9980 Other

GUIDE DES MATIÈRES — FRANÇAIS

LISTE I — COURS RÈGLEMENTAIRES DE LA PROVINCE ENSEIGNÉS EN FRANÇAIS POUR LESQUELS IL EXISTE UN PROGRAMME D'ÉTUDES PROVINCIAL

0338 Actualités — 300
0021 Affaires — 201
0003 Anglais langue seconde — 3e-12e annees
0371 Arts industriels — 7e-9e annees
0012 Biologie — 200, 201, 300, 301
0022 Chimie — 200, 300
0044 Commerce — 101
0001 Comptabilité — 202, 302
0108 Dactylographie — 102, 202, 302
0018 Droit — 302
0031 Economie — 301
0013 Éducation musicale — immersion — 1re année
0080 Éducation musicale — langue maternelle — 1re annee
0014 Éducation musicale — 2e-3e annees
0086 Éducation physique — 1re-9e années
0121 Éducation visuelle — 1re-6e années
0016 English — immersion — 1re-8e annees
0067 English language arts — 9e annee, 100, 101, 200, 201, 300, 301
0364 Français — immersion — 1re-9e années, 100, 101, 105, 200, 201, 205, 300, 301, 305
0041 Français — langue maternelle — 1re-9e années, 100, 101, 105, 200, 201, 205, 300, 301, 305
0047 Géographie — 100, 200, 300
0322 Histoire — 200
0054 Hygiène — 1re-9e années
0365 Informatique — 1re-9e années, 105, 205, 305
0064 Maternelle
0075 Mathématiques — 1re-9e années, 100, 101, 200, 201, 300, 301
0088 Physique — 200, 300
0339 Problèmes canadiens — 300
0372 Sciences familiales — 7e-9e années
Sciences humaines
0103 Sciences humaines — immersion — 1re-6e annees
0043 Sciences humaines — 7e-9e annees
0101 Sciences humaines — langue maternelle — 1re-6e années
0098 Sciences naturelles — immersion — 1re-9e années
0100 Sciences naturelles — langue maternelle — 1re-9e annees
0388 Sciences naturelles — 100, 101, 201, 301

LISTE II — COURS ENSEIGNÉS EN FRANÇAIS ET INITIÉS PAR L'ÉCOLE

9905 Affaires
9917 Arts pratiques
9902 Beaux-arts — Arts dramatiques
9904 — Arts visuels
9901 — Danse
9903 — Musique
9912 Bibliothèque/Techniques de recherche
9909 Éducation des doués/talentueux
9915 Éducation en plein air
9916 Éducation physique
9922 Éducation spéciale
9924 Français
9920 Humanités
9906 Informatique
9911 Langues (autre que Français et Anglais)
9913 Mathématiques
9910 Orientation/Choix de carrière — peut inclure du travail relatif au développement personnel, social, éducatif et au choix de carrière
9914 Pre-maternelle
9918 Religion
9921 Sciences humaines
9919 Sciences naturelles
9923 Autres

LISTE III — TABLEAU D'ACTIVITÉS

9950 Administration
9951 Bibliothèque
9952 Clinicien
9953 Orientation — Individuel
9954 Orthopédagogie
9955 Préparation de classe
9956 Voyage
9957 Surveillance des Projets initiés par l'élève (PIE)
9958 Surveillance de l'expérience au travail
9959 Surveillance d'autres activités
9960 Autres

School Initiated Courses - the professional staff of a school division may develop courses for students in their school. Such courses are approved for local use only and developed within parameters established by the Department of Education.

Student Initiated Courses - students may initiate their own courses in areas of special interest not provided for in the regular high school program. Up to three Student Initiated Project credits may be included among the elective courses.

Work Experience Credits - students may undertake work in the community while attending school for the purpose of providing practical experience of a general nature in the working world. It is an exploratory experience, designed to provide students with a knowledge of different jobs and their demands. Work experience is supervised by the school and the employer.

B. School Initiated Courses - Enrolment Distribution By Region (1985/86)

Course	North %	Rural %	Winnipeg %	Province %
Art - Drama	2.0	2.0	2.0	-
Art - Music	5.6	4.7	4.5	-
Art - Visual	10.7	2.0	0.7	-
Business Education	1.1	4.3	2.8	3.2
Computer Studies	3.2	3.3	2.8	3.0
English as a Second Language	-	0.3	6.1	3.5
English Language Arts	1.6	9.5	4.0	5.8
Gifted/Talented	0.3	0.3	1.2	0.8
Guidance/Career Development	17.4	19.4	16.5	17.6
Language (other than English or French)	-	-	0.3	0.2
Library/Research Skills	5.1	2.4	0.4	1.5
Mathematics	0.7	1.2	1.8	1.5
Nursery	2.2	0.2	0.1	0.3
Outdoor Education	4.6	0.5	2.3	1.9
Physical Education	8.5	9.6	16.3	13.2
Practical Arts	0.3	2.3	1.9	1.9
Religion	-	11.3	1.5	4.9
Science	1.3	1.6	1.5	1.5
Social Sciences	11.1	3.2	3.8	4.2
Social Studies	0.4	2.8	5.4	4.0
Special Education	1.5	2.2	1.5	1.7
Other	22.2	16.7	22.4	20.3
Total	100.0	100.0	100.0	100.0